

# Ciprian Crainiceanu

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,377  
citations

201575

27  
h-index

223716

46  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical coherence tomography reflects brain atrophy in multiple sclerosis: A four-year study. <i>Annals of Neurology</i> , 2015, 78, 801-813.	2.8	304
2	Bayesian Analysis for Penalized Spline Regression Using <b>WinBUGS</b> . <i>Journal of Statistical Software</i> , 2005, 14, .	1.8	238
3	Assessing the "Physical Cliff": Detailed Quantification of Age-Related Differences in Daily Patterns of Physical Activity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 973-979.	1.7	152
4	Real-time Mobile Monitoring of the Dynamic Associations Among Motor Activity, Energy, Mood, and Sleep in Adults With Bipolar Disorder. <i>JAMA Psychiatry</i> , 2019, 76, 190.	6.0	136
5	Longitudinal functional principal component analysis. <i>Electronic Journal of Statistics</i> , 2010, 4, 1022-1054.	0.4	123
6	Exact likelihood ratio tests for penalised splines. <i>Biometrika</i> , 2005, 92, 91-103.	1.3	104
7	Accelerometry Data in Health Research: Challenges and Opportunities. <i>Statistics in Biosciences</i> , 2019, 11, 210-237.	0.6	69
8	Brain and retinal atrophy in African-Americans versus Caucasian-Americans with multiple sclerosis: a longitudinal study. <i>Brain</i> , 2018, 141, 3115-3129.	3.7	67
9	Functional principal component model for high-dimensional brain imaging. <i>NeuroImage</i> , 2011, 58, 772-784.	2.1	66
10	Fast covariance estimation for high-dimensional functional data. <i>Statistics and Computing</i> , 2016, 26, 409-421.	0.8	58
11	Organizing and Analyzing the Activity Data in NHANES. <i>Statistics in Biosciences</i> , 2019, 11, 262-287.	0.6	57
12	Multilevel Functional Principal Component Analysis for High-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , 2011, 20, 852-873.	0.9	54
13	Outer retinal changes following acute optic neuritis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 362-372.	1.4	53
14	Imaging outcome measures of neuroprotection and repair in MS. <i>Neurology</i> , 2019, 92, 519-533.	1.5	53
15	Ironing out the statistical wrinkles in "eten ironic rules". <i>NeuroImage</i> , 2013, 81, 499-502.	2.1	51
16	Using Heart Rate and Accelerometry to Define Quantity and Intensity of Physical Activity in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 668-675.	1.7	50
17	Retinal measurements predict 10-year disability in multiple sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 222-232.	1.7	50
18	Multiple sclerosis patients have a diminished serologic response to vitamin D supplementation compared to healthy controls. <i>Multiple Sclerosis Journal</i> , 2016, 22, 753-760.	1.4	49

#	ARTICLE	IF	CITATIONS
19	The Predictive Performance of Objective Measures of Physical Activity Derived From Accelerometry Data for 5-Year All-Cause Mortality in Older Adults: National Health and Nutritional Examination Survey 2003–2006. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1779-1785.	1.7	46
20	Chronic arsenic exposure and risk of carotid artery disease: The Strong Heart Study. <i>Environmental Research</i> , 2017, 157, 127-134.	3.7	42
21	Modelling subject-specific childhood growth using linear mixed-effect models with cubic regression splines. <i>Emerging Themes in Epidemiology</i> , 2016, 13, 1.	1.2	40
22	Longitudinal scalar-on-functions regression with application to tractography data. <i>Biostatistics</i> , 2013, 14, 447-461.	0.9	38
23	Quantifying the Predictive Performance of Objectively Measured Physical Activity on Mortality in the UK Biobank. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1486-1494.	1.7	37
24	Validation of Gait Characteristics Extracted From Raw Accelerometry During Walking Against Measures of Physical Function, Mobility, Fatigability, and Fitness. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 676-681.	1.7	35
25	Epidemiology of objectively measured bedtime and chronotype in US adolescents and adults: NHANES 2003–2006. <i>Chronobiology International</i> , 2018, 35, 416-434.	0.9	35
26	Longitudinal high-dimensional principal components analysis with application to diffusion tensor imaging of multiple sclerosis. <i>Annals of Applied Statistics</i> , 2014, 8, 2175-2202.	0.5	33
27	Functional regression via variational Bayes. <i>Electronic Journal of Statistics</i> , 2011, 5, 572-602.	0.4	29
28	Wearable Devices: Current Status and Opportunities in Pain Assessment and Management. <i>Digital Biomarkers</i> , 2021, 5, 89-102.	2.2	29
29	Day-Night Activity in Hospitalized Children after Major Surgery: An Analysis of 2271 Hospital Days. <i>Journal of Pediatrics</i> , 2019, 209, 190-197.e1.	0.9	24
30	Prediction of sustained harmonic walking in the free-living environment using raw accelerometry data. <i>Physiological Measurement</i> , 2018, 39, 02NT02.	1.2	23
31	Association of body mass index with longitudinal rates of retinal atrophy in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2020, 26, 843-854.	1.4	21
32	Stride variability measures derived from wrist- and hip-worn accelerometers. <i>Gait and Posture</i> , 2017, 52, 217-223.	0.6	19
33	fslr: Connecting the FSL Software with R. <i>R Journal</i> , 2015, 7, 163-175.	0.7	18
34	#MeToo and Google Inquiries Into Sexual Violence: A Hashtag Campaign Can Sustain Information Seeking. <i>Journal of Interpersonal Violence</i> , 2021, 36, 9857-9867.	1.3	16
35	Macular Ganglion Cell and Inner Plexiform Layer Thickness Is More Strongly Associated With Visual Function in Multiple Sclerosis Than Bruch Membrane Opening–Minimum Rim Width or Peripapillary Retinal Nerve Fiber Layer Thicknesses. <i>Journal of Neuro-Ophthalmology</i> , 2019, 39, 444-450.	0.4	16
36	Visual Pathway Measures are Associated with Neuropsychological Function in Multiple Sclerosis. <i>Current Eye Research</i> , 2018, 43, 941-948.	0.7	15

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37	Physical Activity and Adiposity in a Racially Diverse Cohort of US Infants. <i>Obesity</i> , 2020, 28, 631-637.	1.5	13
38	Electronic Devices and Applications to Track Physical Activity. <i>JAMA - Journal of the American Medical Association</i> , 2015, 313, 2079.	3.8	12
39	Dynamic prediction in functional concurrent regression with an application to child growth. <i>Statistics in Medicine</i> , 2018, 37, 1376-1388.	0.8	12
40	The NAIMS cooperative pilot project: Design, implementation and future directions. <i>Multiple Sclerosis Journal</i> , 2018, 24, 1770-1772.	1.4	12
41	Obesity History and Daily Patterns of Physical Activity at Age 60â€“64 Years: Findings From the MRC National Survey of Health and Development. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 1424-1430.	1.7	10
42	Modeling continuous glucose monitoring (CGM) data during sleep. <i>Biostatistics</i> , 2022, 23, 223-239.	0.9	8
43	Occupational determinants of physical activity at work: Evidence from wearable accelerometer in 2005â€“2006 NHANES. <i>SSM - Population Health</i> , 2022, 17, 100989.	1.3	8
44	Habitual physical activity patterns in a nationally representative sample of U.S. adults. <i>Translational Behavioral Medicine</i> , 2021, 11, 332-341.	1.2	7
45	Methadone Destabilizes Cardiac Repolarization During Sleep. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 110, 1066-1074.	2.3	7
46	Genome-wide association studies of 27 accelerometry-derived physical activity measurements identified novel loci and genetic mechanisms. <i>Genetic Epidemiology</i> , 2022, 46, 122-138.	0.6	7
47	Quantifying the Varying Predictive Value of Physical Activity Measures Obtained from Wearable Accelerometers on All-Cause Mortality over Short to Medium Time Horizons in NHANES 2003â€“2006. <i>Sensors</i> , 2021, 21, 4.	2.1	6
48	Testing differentially expressed genes in dose-response studies and with ordinal phenotypes. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2016, 15, 213-235.	0.2	5
49	Novel metrics for growth model selection. <i>Emerging Themes in Epidemiology</i> , 2018, 15, 4.	1.2	4
50	Variable-Domain Functional Principal Component Analysis. <i>Journal of Computational and Graphical Statistics</i> , 2019, 28, 993-1006.	0.9	4
51	brainR: Interactive 3 and 4D Images of High Resolution Neuroimage Data. <i>R Journal</i> , 2014, 6, 41-48.	0.7	4
52	Multi-Site Observational Study to Assess Biomarkers for Susceptibility or Resilience to Chronic Pain: The Acute to Chronic Pain Signatures (A2CPS) Study Protocol. <i>Frontiers in Medicine</i> , 2022, 9, 849214.	1.2	4
53	Parameterization of White Matter Manifold-Like Structures Using Principal Surfaces. <i>Journal of the American Statistical Association</i> , 2016, 111, 1050-1060.	1.8	2
54	Rxnat: An Open-Source R Package for XNAT-Based Repositories. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 572068.	1.3	1

#	ARTICLE	IF	CITATIONS
55	Matrix decomposition for modeling lesion development processes in multiple sclerosis. Biostatistics, 2022, 23, 83-100.	0.9	1